

ABSTRACT OF THE DISCLOSURE

A method of continuously manufacturing a patterned conductive layer includes the steps of providing a linearly moving substrate; coating a dispersion containing conductive nano-materials onto a surface of the linearly moving substrate; drying the coated dispersion wherein the nano-materials self-align into a conductive layer; coating a protective layer of radiation-curable material over the nano-materials coated on the linearly moving substrate; exposing the protective layer coating to patterned radiation and curing the exposed pattern in the protective layer; and removing uncured sections of the protective layer and the underlying sections of the conductive layer to form a patterned conductive layer.